**SC ALAMSERVICE 96 SRL**

# MS-MBN2

# SC ALAMSERVICE 96 SRL

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# Safety instructions:

**1. Read through mounting guidelines:**
Please read through all safety instructions and handling directions intently before installation and start up of the device.
**2. Keep mounting guidelines:**
Keep the instruction manual and safety instructions for potential further reference.
**3. Caution advises:**
Please follow all caution advises contained in the mounting guidelines.
**4. Water and humidity:**
The device should not be operated near water or near a humidity source.
**5. Warmness / heat:**
The device should not be set up in direct proximity of heat sources (e. g. power amplifier).
**6. Electric power supply:**
The device should only be operated at a +12 volt vehicle electrical system.
**7. Connection / electric power supply:**
Use the device only at a +12 volt vehicle electrical system. Make sure to have a proper ground.
**8. Intrusion of objects or liquids:**
Please make sure that no objects or liquids can intrude the interior of the device! (Danger of short circuit!)
**9. Repairs:**
You should call on qualified personnel, if:

- a plug or a connector have been damaged
- cables are damaged
- objects have fallen into the device or liquids have intruded it
- the product has been exposed to humidity
- the device doesn't function normally or if significant changes in the operating performance can be observed
- the product/casing has been damaged.

**10. Operation:**
Start no operation that is likely to distract you for a prolonged time from road traffic or traffic related events – RISK OF ACCIDENT!!!
**11. Warranty:**
The warranty will cease in case that:

- you open the device or the casing
- you carry out repairs single handed
- you use the device improperly
- the device shows damages caused by external forces or mischievous destructions.

**We assume no liability for damages to the vehicle or to people.**

# SC ALAMSERVICE 96 SRL

# Product description:

**Article:** **MS-MBN2**

**Function:** Cable kit for Multimedia Interface “MULTI10” / “MULTI15” / “MULTI20” for use in conjunction with the following systems:

Mercedes NTG1:

- E-Class W211, CLS W219 (with video-fakra plug)

Mercedes NTG2:

- A-Class W169, B-Class W245
- C-Class W203 up to 4/2004
- R-Class W251, M-Class W164
- CLK W209 , GLX164

Range Rover:

- Vogue , Sports , Discovery from model 2006

Porsche:

- Cayenne PCM 2.1

## Connection assignment of the cable kit:

| Cable color/Connector: | Connector/Assignment: |
|---|---|
| ● Red: | +12V DC |
| ● Black: | GND |
| 3,5mm Jack Socket: | Control |
| Fakra-Green: | Video-Line |

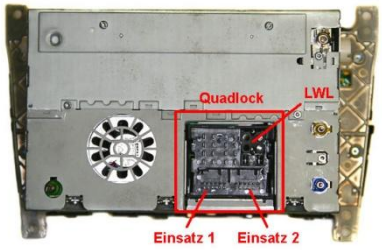
# Installation of cable kit with MULTI10:

## Instructions for Mercedes W169, W245, W203, W209, W251, W164 with NTG2 System:

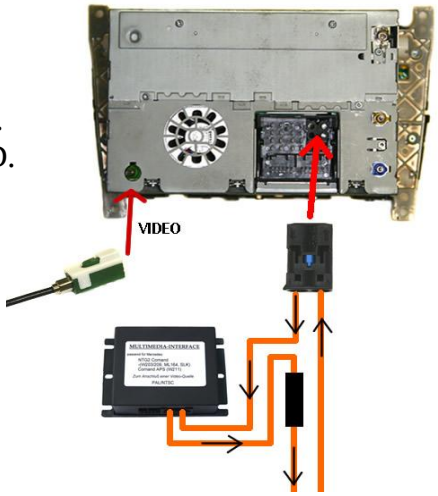
**<u>Warning:</u> Do not install interface while ignition is turned on.**

1. Remove all covers around the COMAND.

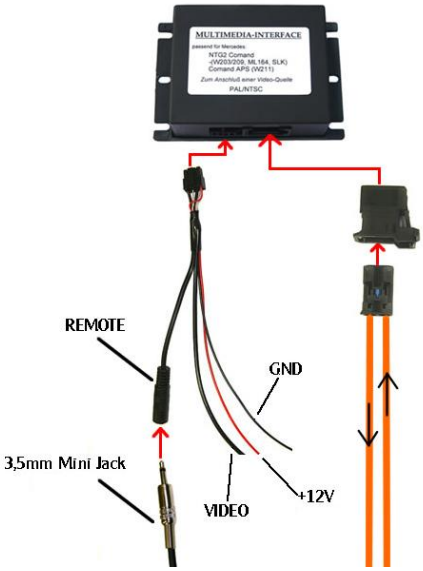
2. Remove the 4 screws attaching the COMAND to the center console and remove it carefully.



3. Disconnect the original Quadlock-connector from the device.
   Connect the green Fakra-plug (Video-Line) to the COMAND.
   Remove one of the two optical cables from the original Quadlock-connector and connect it to the enclosed LWL-connector.
   Connect the second optical cable to the original Quadlock-connector. Pay attention to the directional arrows as shown in the picture on the right.




4. Connect the black wire of the cable kit to ground and the red wire to 12V plus.
   Connect the corresponding control cable (e.g. „STK-AL25“ for DVD Alpine devices) to the jack socket. Additionally, the available Y-adapter „CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself.
   Furthermore, a second Y-adapter may be used for parallel control of an additional video source if the adapter is connected between the jack socket of the cable kit and the corresponding control cable.




5. Connect the three Cinch sockets of the interface to the video source using a Video / Audio Cinch cable (not included).
   Reconnect the original Quadlock- connector to the COMAND.

6. Re-attach system to center console.

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## Instructions for Mercedes W211, W219 with NTG1 system:

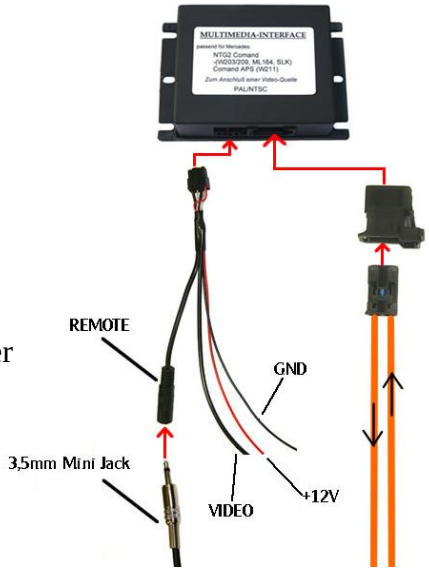
**<u>Warning:</u> Do not install interface while ignition is turned on.**

1. Remove all covers below the COMAND.

2. Loosen the two screws attaching the COMAND to the center console and carefully extract it.

3. Disconnect the original Quadlock-connector from the device. Connect the green Fakra-plug (Video-Line) to the COMAND. Remove one of the two optical cables from the original Quadlock-connector and connect it to the enclosed LWL-connector.
   Connect the second optical cable to the original Quadlock-connector. Pay attention to the directional arrows as shown in the picture on the right.

4. Connect the black wire of the cable kit to ground and the red wire to 12V plus.
   Connect the corresponding control cable (e.g. „STK-AL25“ for DVD Alpine devices) to the jack socket. Additionally, the available Y-adapter „CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself.
   Furthermore, a second Y-adapter may be used for parallel control of an additional video source, provided that the adapter is connected between the jack socket of the cable kit and the corresponding control cable.




5. Connect the three Cinch sockets of the interface to the video source using a Video / Audio Cinch cable (not included). Reconnect the original Quadlock- connector to the COMAND.

6. Re-attach system to center console.

# Function and controls (Mercedes):

Pushing the “Video“ button activates the AV-input of the COMAND.
Prolonged pushing (2 Sec.) the “1“ and then the “*” button activates the device channel input.
Input now device-specific control selection requires entering a two-digit number (e.g. “01“ denotes controls for the DVD USB Player) followed by pushing the “OK“ button.

Pushing the “5” button for a prolonged time switches between device controls.

For a detailed button assignment see page 16/17.

## Device RC Codes:

| Model | RC Code: |
|---|---|
| DVD USB, MP410, MP412, AD212U, DVP-1000M, DVP-900HD | 1 |
| DVBT2007, Dietz 1491/V | 2 |
| AMPIRE DVB-T100 | 3 |
| DVB2008, TRT400 | 4 |
| DVDC CKO DVC10 | 5 |
| DVD-Changer CKO- DVC 6M , Yamakawa DVD-Changer | 6 |
| DVBT NL, SENERGY, C-KO DVBT-1080, Axion DVBT 500 | 7 |
| DVD ADJQ-DVDRD, PYLE PLTD24, Veba, Carmedien CM06 | 8 |
| DVD 1/2 DIN (NO NAME) | 9 |
| DVD Alpine RUE - 4201 | 10 |
| DVD Alpine RUE - 4158;TUE-T150DV | 11 |
| DVBT Eastern SE863-T | 12 |
| iPod® Vlink | 13 |
| DVBT ZENEC ZE-DVBT25 | 14 |
| V-HUB VPA-B222R Alpine Radio | 15 |
| V-HUB VPA-B222R Alpine DVD | 16 |
| DVD Necvox DVA-3206 | 17 |
| Analog-TV Alpine TUE-T112P | 18 |
| Analog-TV TRT-003 | 19 |
| BOA-DVD 85700 /AIV, C-KO 412 | 20 |
| DVD Visteon VXM2200 | 21 |
| DVBT Quantum QTM10 | 22 |
| DVD Elite ELT-900XU Novosonic | 23 |
| DVDC CkO MPC6 | 24 |
| DVD-TIXXON (No Name) | 25 |

| Model | RC Code: |
|---|---|
| HD-Player 3,5“ MVIX MV-5000U | 26 |
| DVD Axion VDV-402 | 27 |
| DVD Bullit CDVD12 | 28 |
| DVD ZENEC ZE-080 | 29 |
| DVBT Ampire DVBT200 | 30 |
| DVBT&DVD USB Digitaldynamic Multiplayer | 31 |
| iPod Alpine KCE-425I | 32 |
| A-TV TVT-765 | 33 |
| Emperor Mini DVBT | 34 |
| DVBT Carmedien DVB423 | 35 |
| DVBT M-DTV-201-0 | 36 |
| DVDC Pioneer XDV-P6 (Reserviert) | 37 |
| DVD Phonocar VM 015 (USB/SD) | 38 |
| Hirschmann DVBT / Visteon DVBT | 39 |
| HD Microlab - Pocket X Div 25 (2,5 Zoll HD P. Tixxon) | 40 |
| DVB-T D80 | 41 |
| DAS / Dietz 1492 DVB-T | 42 |
| DVBT Ampire DVBT50 | 43 |
| NavNGo | 44 |
| TRI1100 DVB-T (USBHDMI) | 45 |
| DVD500UX | 46 |
| HD DVB-T MPEG-4 VCAN (HDMI, USB) | 47 |
| DVD Phonocar VM 015 (USB/SD) – Klon | 48 |
| ZEMEX DVBT D90 (DVB600) | 49 |
| Alpine KCE-635 (USB Player) | 50 |
| DVB 288 CS (MPG4 DVB-T) | 51 |
| DVBT Carmedien DVB423 (2 Generation) | 52 |

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# Installation of cable kit with MULTI15:

## Instructions for Ranger Rover Vogue, Sports, Dicovery 3:

**<u>Warning:</u> Do not install interface while ignition is turned on.**

Discovery 3

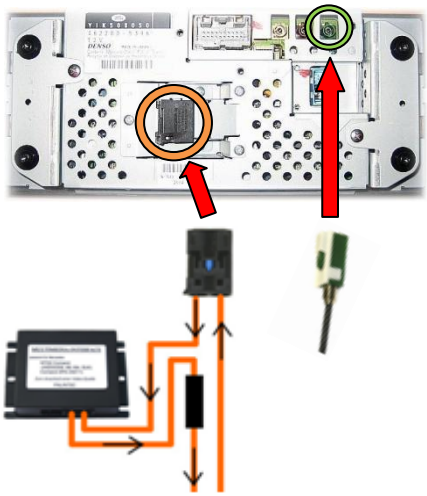
Vogue

Sports

1. Extract the touch screen monitor from the center console.

2. Connect the green Fakra connector (Video-Line) of the cable kit MS-MBN2 directly to the monitor.

3. Remove one of the two optical cables from the original connector (please pay attention to the directional arrows) and insert it into the supplied LWL-connector.
   Connect the second optical cable to the original connector.



4. Connect the black wire of the cable kit to ground and the red wire 12V permanent plus.
   Connect the corresponding control cable (e.g.“ STK-AL25“ for DVD Alpine devices) to the jack socket.
   The optionally available Y-adapter ”CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself. Furthermore, a second Y-adapter may be used for parallel control of an additional video source, provided that the adapter is connected between the jack socket of the cable kit and the corresponding control cable.

5. Use a Video / Audio Cinch cable (sold separately) to connect the video source to the three Cinch sockets of the interface.

6. Re-attach the system to the center console.

# Function and controls (Range Rover):

Pushing the “TV“ field in the main menu displays the TV system layer.

Once a TV system was selected, exit the current layer by pushing the“⮤“ symbol

Pushing the “Auto“ field switches to the control selection layer.
It allows parallel access of up to two devices.

Return to the main menu by pushing the“⮤“ symbol.

The numeric array together with two arrow fields displayed in the main menu are used to remotely control the video source(s).
For detailed controls refer to the chart below.

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## Button Assignment

| ●—● RANGE ROVER VOGUE, SPORTS, DISCOVERY 3 ●—● | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **\|<** | **>\|** | **<<** | **>>** |
| **DVD / DVDC PLAYER** | SOURCE | UP | MENU/PBC | LEFT | ENTER/OK | RIGHT | STOP | DOWN | PLAY/ PAUSE | TRACK - | TRACK + | ANGLE / DISC | - |
| **DVB-T TUNER** | AV / DVB | UP | MENU | LEFT | OK | RIGHT | FAV | DOWN | EXIT | CH - | CH + | EPG | - |
| **ANALOG TUNER** | MODE | VOL + | POWER | CH - | ADJUST | CH + | FM | VOL - | DISPLAY | CH - | CH + | SCAN | - |
| **COMBI DVD/DVB-T** | SOURCE | UP | MENU/PBC | LEFT | ENTER | RIGHT | STOP | DOWN | PLAY/ PAUSE | TRACK - | TRACK + | AUTO SCAN | - |

Please note, that the |< and >| buttons on the multi function steering wheel are only supported in the Range Rover Vogue

**Note**: Depending on the type of the video source to be connected, the interface needs to be pre-configured by its manufacurer to enable video control functions.

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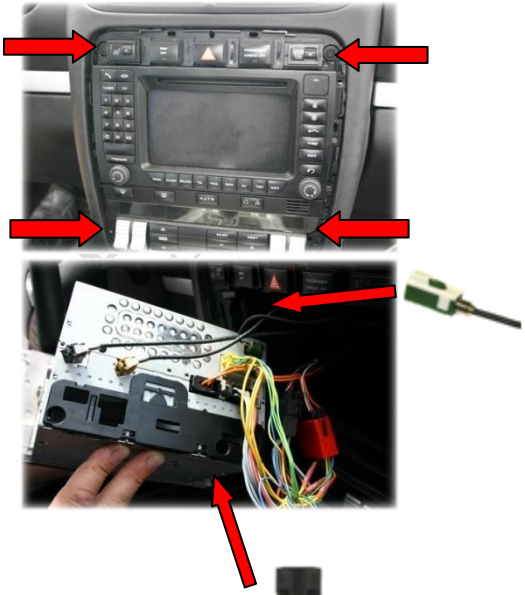
# Installation of cable kit with MULTI20:

## Instructions for Porsche Cayenne PCM 2.1 system:

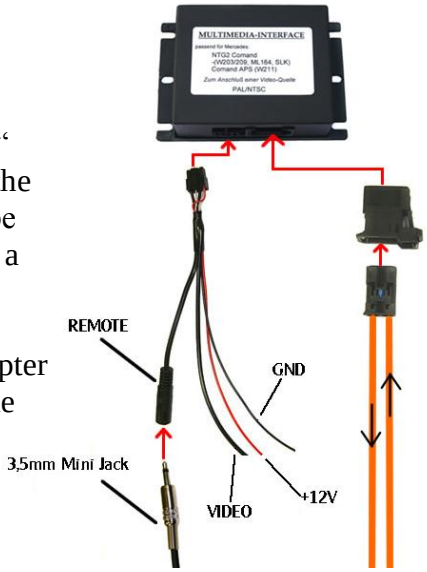
**<u>Warning:</u> Do not install interface while ignition is turned on.**

1. Carefully remove the decorational cover surrounding the navigation system using appropriate tools.
   Loosen the 4 TORX-screws as marked in the picture on the right and extract the device from the center console.



2. Disconnect all plugs from the device.
   Connect the green Fakra-plug (Video-Line) to the PCM 2.1 system. Remove one of the two optical cables from the original connector and connect it to the enclosed LWL-connector. Connect the second optical cable to the original connector. Pay attention to the directional arrows as shown in the picture on the right.

4. Connect the black wire of the cable kit to ground and the red wire to 12V plus.
   Connect the corresponding control cable (e.g. „STK-AL25“ for DVD Alpine devices) to the jack socket. Additionally, the available Y-adapter „CABLE-415“ (sold separately) may be used to enable the connection of the IR-remote receiver of a video source parallel to the interface itself.
   Furthermore, a second Y-adapter may be used for parallel control of an additional video source, provided that the adapter is connected between the jack socket of the cable kit and the corresponding control cable.



5. Connect the three Cinch sockets of the interface to the video source using a Video / Audio Cinch cable (not included). Reconnect the original Quadlock- connector to the PCM 2.1 system.

6. Re-attach system to center console.

# Function and controls (Porsche):

To be able to use the controls, station buttons 0-9 of the PCM 2.1 system need to be assigned the corresponding control channels.
Pushing the “AV“ button activates TV input.

Pushing the right knob accesses the TV menu and enables the selection of the memory layers (AS, A or B): Layer “A“ needs to be selected.

Station buttons 0-9 are assigned to channel numbers at the „chanel input“ level:

1. Use the right knob to select the channel number (Ch 1)
2. Push the right knob briefly
3. Push the „back arrow“ button to retun to previous menu
4. Push station button „1“ for 2 secound (confirmend by a sound)

- Repeat this procedure until all stations buttons have been assigned to channels numbers

Assign station buttons as indicated:

| Station Btn.: | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Channel Nr.: | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |

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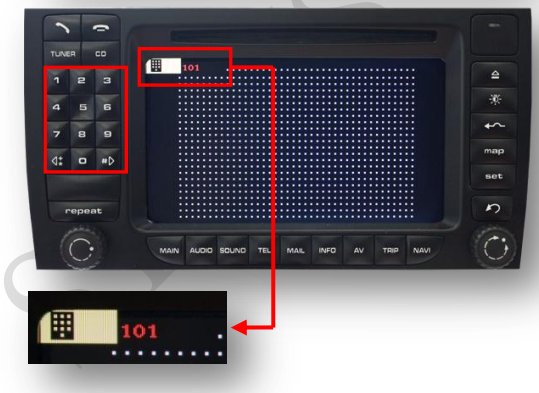
**Device Assignment:**

Access the menu level “INFO“ → “VIDEOTEXT“ in order to select controls for a specific device.

Enter the three digit device RC Code using the keypad (e.g. for DVP-900HD ”**101**”) in order to store RC code.




## Device RC Codes:

| Model | RC Code: |
|---|---|
| DVD USB, MP410, MP412, AD212U, DVP-1000M, DVP-900HD | 101 |
| DVBT2007, Dietz 1491/V | 102 |
| AMPIRE DVB-T100 | 103 |
| DVB2008, TRT400 | 104 |
| DVDC CKO DVC10 | 105 |
| DVD-Changer CKO- DVC 6M , Yamakawa DVD-Changer | 106 |
| DVBT NL, SENERGY, C-KO DVBT-1080, Axion DVBT 500 | 107 |
| DVD ADJQ-DVDRD, PYLE PLTD24, Veba, Carmedien CM06 | 108 |
| DVD 1/2 DIN (NO NAME) | 109 |
| DVD Alpine RUE - 4201 | 110 |
| DVD Alpine RUE - 4158;TUE-T150DV | 111 |
| DVBT Eastern SE863-T | 112 |
| iPod® Vlink | 113 |
| DVBT ZENEC ZE-DVBT25, TRT500 | 114 |
| V-HUB VPA-B222R Alpine Radio | 115 |
| V-HUB VPA-B222R Alpine DVD | 116 |
| DVD Necvox DVA-3206 | 117 |
| Analog-TV Alpine TUE-T112P | 118 |
| Analog-TV TRT-003 | 119 |
| BOA-DVD 85700 /AIV, C-KO 412 | 120 |
| DVD Visteon VXM2200 | 121 |
| DVBT Quantum QTM10 | 122 |
| DVD Elite ELT-900XU Novosonic | 123 |
| DVDC CkO MPC6 | 124 |
| DVD-TIXXON (No Name) | 125 |
| HD-Player 3,5“ MVIX MV-5000U | 126 |
| DVD Axion VDV-402 | 127 |
| DVD Bullit CDVD12 | 128 |
| DVD ZENEC ZE-080 | 129 |

| Model | RC Code: |
|---|---|
| DVBT Ampire DVBT200 | 130 |
| DVBT&DVD USB Digitaldynamic Multiplayer | 131 |
| iPod Alpine KCE-425I | 132 |
| A-TV TVT-765 | 133 |
| DVBT Emperor DTR-1203 | 134 |
| DVBT Carmedien DVB423 | 135 |
| DVBT M-DTV-201-0 | 136 |
| DVD 600 (1/2 DIN USB/SD) | 137 |
| DVD Phonocar VM 015 (USB/SD) | 138 |
| Hirschmann DVBT / Visteon DVBT | 139 |
| HD Microlab - Pocket X Div 25 (2,5 Zoll HD P. Tixxon) | 140 |
| DVB-T D80 | 141 |
| DAS / Dietz 1492 DVB-T | 142 |
| DVBT Ampire DVBT50 | 143 |
| NavNGo | 144 |
| TRI1100 DVB-T (USBHDMI) | 145 |
| DVD500UX | 146 |
| HD DVB-T MPEG-4 VCAN (HDMI, USB) | 147 |
| DVD Phonocar VM 015 (USB/SD) – Klon | 148 |
| ZEMEX DVBT D90 (DVB600) | 149 |
| Alpine KCE-635 (USB Player) | 150 |
| DVB 288 CS (MPG4 DVB-T) | 151 |
| DVBT Carmedien DVB423 (2 Generation) | 152 |

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## Button Assignments for PCM2.1:

| | ●—● PCM2.1 ●—● | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Modell** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **0** | **\|<<** | **>>\|** |
| **DVD PLAYER** | PLAY | ↑ | STOP | ← | ENTER | → | PBC | ↓ | SETUP | AV | TRACK- | TRACK+ |
| **DVD CHANGER** | PLAY | ↑ | STOP | ← | ENTER | → | DISC | ↓ | SETUP | AV | TRACK- | TRACK+ |
| **DVB-T TUNER** | SCAN | ↑ | EPG | ← | OK | → | EXIT | ↓ | MENU | AV | CH- | CH+ |
| **I-POD® CONTROL** | PLAY/ PAUSE | ↑ | POWER | ← | ENTER | → | SHUFFLE | ↓ | LIGHT | EJECT | TRACK- | TRACK+ |
| **ANALOG TUNER** | SCAN | VOL+ | FM | CH- | MODE | CH+ | MUTE | VOL- | MODE | DISPLAY | CH- | CH+ |

## Button Assignments for NTG1 / NTG2:

| | ●—● COMAND NTG 1/2 short press ●—● | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Modell** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **0** | ***** | **\|<<** | **>>\|** |
| **DVD PLAYER** | PLAY | ↑ | STOP | ← | ENTER | → | PBC | ↓ | SETUP | AV | RC CODE | TRACK- | TRACK+ |
| **DVD CHANGER** | PLAY | ↑ | STOP | ← | ENTER | → | DISC | ↓ | SETUP | AV | RC CODE | TRACK- | TRACK+ |
| **DVB-T TUNER** | SCAN | ↑ | EPG | ← | OK | → | EXIT | ↓ | MENU | AV | RC CODE | CH- | CH+ |
| **I-POD® CONTROL** | PLAY/ PAUSE | ↑ | POWER | ← | ENTER | → | SHUFFLE | ↓ | LIGHT | EJECT | RC CODE | TRACK- | TRACK+ |
| **ANALOG TUNER** | SCAN | VOL+ | FM | CH- | MODE | CH+ | MUTE | VOL- | MODE | DISPLAY | RC CODE | CH- | CH+ |

| | ●—● COMAND NTG 1/2 long press ●—● | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Modell** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **0** |
| **DVD PLAYER** | Set RC1 | Set RC2 | ----- | DISPLAY | SWITCH AV1/AV2 | AUDIO | SUB | ----- | ----- | POWER |
| **DVD CHANGER** | Set RC1 | Set RC2 | ----- | DISPLAY | SWITCH AV1/AV2 | AUDIO | SUB | ----- | ----- | POWER |
| **DVB-T TUNER** | Set RC1 | Set RC2 | ----- | SIGNAL | SWITCH AV1/AV2 | AUDIO | LANG | ----- | ----- | POWER |
| **I-POD® CONTROL** | Set RC1 | Set RC2 | ----- | ----- | SWITCH AV1/AV2 | MUTE | ----- | ----- | ----- | POWER |
| **ANALOG TUNER** | Set RC1 | Set RC2 | ----- | DISPLAY | SWITCH AV1/AV2 | FM | MUTE | ----- | ----- | POWER |

**We wish you a lot of fun with your new device and thank you for deciding in favor of our product.**